HELONOSOVA, Ye.Ye. Distribution of grain and corn diseases in Ivanovo Province. K pozn.fauny i flory Ivan.obl. no.1:85-89 '61.

(Ivanovo Province—Grain—Diseases and pests)

(Ivanovo Province—Corn (Maize)—Diseases and pests) (MIRA 15:7) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204400009-6

BELCHOVICH, M.

Funching machineomerated by keys. From.koon. no. 8:26 Ag '57.

(MLSA 10:9)

1. Rukovoditei' normativnov erunny konstruktorskov kontory Belnromaoveta, Kinsi.

(Textile normany)

BELONOVICH, M. (Minsk); SAMARIN, A.; NURULIAYEV. J., rabkor (Baku);
SHKARUBO, A.; PROKURAT, R.

Letters to the editor. Sov. profesoluzy 17 no.6:36-38 Mr '61.

(Mina 14:3)

1. Predsetatel' postoyanno-deystvuyushchege proizvodstvennogo soveshchaniya kombinata iskusstvenney kozhi, g. Kalinin (for Prokurat).

(Trade unions)

AUTHORS:

Lapkin, I, I. Belonsvich, M. I.

TITLE:

Reactions of Metal Halide Alcoholates. (Reaktsii galoid\_metalkalkog.lyatov)

VI. New Method for the Synthesis of Monoxytriary methane

(VI. Novyy spesob sinteramocooksutriarilmetaniv)

PERIODICAL:

Zhurnal Obshchey Khimin, 1958 Vol. 28 Nr 3, pp. 605-608

(USSR)

ABSTRACT:

Based on earlier investigations of their cwn (Ref 1) in which they found that the equimolecular effect of the esters of formic acid and exalic acid on magnesium halide diarylcarbinolates leads to the formation of diarylmethyl halides, the authors began to elaborate the synthesis of monoxytriarylmethane. The method consists of a conversice of a mixture of diarylcarbinol and phenoi(or naphthol) with the addition of a corresponding amount of bromoethylmagnesium

to a mixture of borcmagnesium-diarylcarbinolates and phenolates. When then exalic and ester is added to the reaction mixture the bromomagnesium diarylcarbinolate converts to diarylmethylbromide which again forms a mono-

Card 1/3

Reactions of Metal Halide Alcoholates 7, 28 3-8/8 VI. New Method for the Synthesis of Mon.xytr.arylmethans

xytriary lmethane with the anonanged bromamagnessom pheneless (or enaphtholate) (See the reaction process mentioned) The fact that in this no products of a carbinol or cheno: grouping, which according to Snorygin are characteristic for the ether group, were chaerved proves that the intermediate products of the reaction are not ethers. Centrary to the results of the investigations (Refs 3 4) according to which coxytrapheny methane is formed in the reaction of diphenylmethylbromade with sodium phenolate  $\neg \sigma$  somers of oxytriary) methane are formed in the present reaction of bromomagnesiumphenolate as well as of tromomagnesium ccresolate, with diphenyibromide (obtained as mentioned above, in the reaction process from bromomagnesiumbenzohydrolate and oxalic acid ester); these isomers are those of processing the settle research are only formed when the M-position is occupied which is, for instance, the case when T cresor is added to the reaction. Thus two compounds which have not been described earlier are synthetized: diphenyl-(2 oxymaphthyl-2)-methage and diphenyl-(2-etiloxynaphtbyl-1) carbinol

Card 2/3

Reactions of Metal Halide Alcoholates

79-28 3-6/61

VI. New Method for the Synthesis of Monexytriarylmethane

There are 10 references, 1 of which is Soviet

ASSOCIATION:

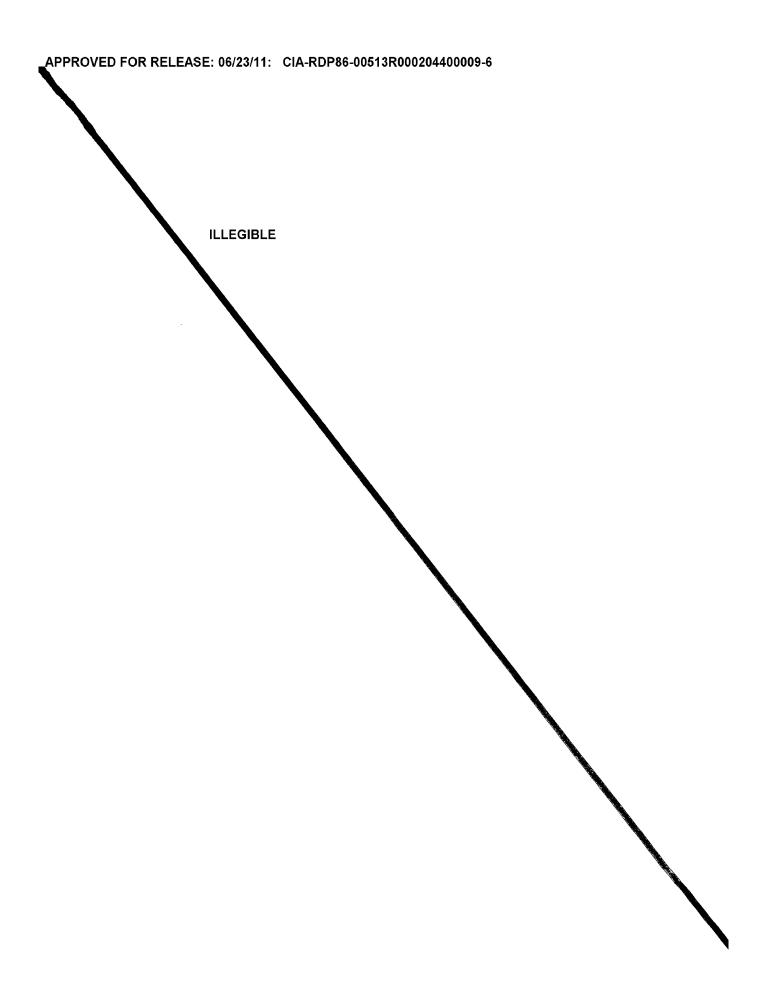
Permskiy gosudarstvennyy universitet

(Perm State University)

SUBMITTED:

March 7 1957

Card 3/3



BELLONOVEKAYA, G. P., DOLAGPIASK, D. A., and THEYAKOVA, E.V.

"Low Temperature pelymerization initiated by discrete at the contrast the resulting polymers," a paper presented at the 6th Congress of the Chemistry and Physics of High Polymers, 25 Jans. Note 57, 1985 to the Polymers and the contrast of the contrast of the Polymers.

B-3,074,305

BELONOVSKAYA, G.P.; DOLGOPLOSK, B.A.; TINYAKOVA, Ye.I.

Redex systems for initiating radical precesses. Report ne.1. Reversible systems with the participation of hydroperoxides, diemes and multivalent metal salts. Izv. AN SSSR Otd. khim. nauk ne.12:1478-1486 D '56. (MIRA 10:4)

1. Institut vyskemelekulyarnykh soyedineniy Akademii nauk SSSR. (Oxidatien--Reductien reactien)

AUTHORS:

Belonovskaya, G. P.; Dolgoplosk, B. A.; Tinyakova, Ye. I. 62-1-9/21

TITLE:

Oxidation-Reduction Systems for the Initiation of Radical Processes. Part 2. Initiation of Polymerization in Aqueous Emulsions under the effect of Reversible Systems at a Temperature of below 0° and Study of the Microstructure of the Polymeric Chain (Okislitel'no-vosstanovitel'nymesistemy dlya initsiirovaniya radikal'nykh protsessov. Soobshcheniye 2. Initsiirovaniye polimerizatsii v vodnykh emul'siyakh pod vliyaniyem obratimykh sistem pri temperature nizhe 0° i izucheniye mikrostruktury polimernoy tsepi).

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957, No. 1, pp. 65-69 (U.S.S.R.)

ABSTRACT:

The purpose of this report is to study the applicability of an oxidation-reduction system, consisting of dienols, hydrogen peroxide of isopropylbenzene and very small amount of ferric salt or cupric salt, for the initiation of polymerization in an aqueous emulsion at very low temperatures for the purpose of establishing the relation between the

Card 1/3

62-1-9/21

Oxidation-Reduction Systems for the Initiation of Radical Processes. Part 2. Initiation of Polymerization in Aqueous Emulsions under the effect of Reversible Systems at a Temperature of below 0° and Study of the Microstructure of the Polymeric Chain

polymerization temperature and the microstructure of the polymeric chain. It was found that the application of such system is perfectly possible for polymerization initiation at temperatures ranging down to -47°. It is evident from results obtained that the system containing dioxymaleic acid and ferric salt is the most active one but only in the presence of hydrogen peroxide of r-tertiary-butyl-isopropyl benzene.

The authors obtained data which established a close relation between the polymerization temperature of Divinyl and isoprene and the microstructure of the polymeric chain. A reduction in polymerization temperature displaces the equilibrium toward a more stable trans-form. Divnyl polymers at a reduced polymerization temperature show a positive tendency toward crystallization.

Card 2/3

Tables, graphs, illustrations. There are 11 references, of which 2 are Slavic.

62-1-9/21

Oxidation-Reduction Systems for the Initiation of Radial Processes. Part 2. Initiation of Polymerization in Aqueous Emulsions under the effect of Reversible Systems at a Temperature of below 0° and Study of the Microstructure of the Polymeric Chain

ASSOCIATION:

Academy of Sciences of the USSR, Institute of High Molecular

Compounds

PRESENTED BY:

SUBMITTED:

December 13, 1955

AVAILABLE:

Library of Congress

Card 3/3

E-LONGVSKAYA, G.P.

AUTHORS:

Belonovskaya, G. P., Dolgo, losh. S. A., Vasyutina, Zh. D., Kalegiva, L. ..

62-1-5/29

TITLE:

Redox-Systems for the Startam, of medical brougases (Chislitel'no-vesatamovitel'ngge al despe include the fact of the lay. redikalinich arothermot) is set of On the Mechanism of Behaviour of a System Containing Ethylene Diamine and Hydroperoxide (ucossiminant) : . to makingarize doystviya siscemy, sodershashche, otilenticain i lireferekisi).

PERICDICAL:

lavestiya All 3330 Otdeleniye Al. Johnskikh Mask, 1958, Kr 1, Fr 24-34 (933R)

ABSTRACT:

Those exidation-reduction systems constants of polyethylenepolyamines, hydrogenporoxidos and salts of from are very important among the numerous redex systems used at present for the starting of the smalshing product of palymerication. In this paper -as in some feature ones- the authors emphasize that this system is effective only in process of salts of iron, and that their rile consists of the formation of free radicals. The settlers investigate 2 notemas of the forction of polyamine syclome (taforeness 6,7 and settlers 6,6). The first presupposes the office that the demonstration of whire and the solts of iron, in the same of the second, however, it

Card 1/2

> was assumed that the introduction of relementation is connected with the immediate interaction between unine and hydrogen poroxide in the possesse of bivalent iron. The kinetics of the interaction between athylone diamine and the hydrogen peroxide of isopropylene-benzene was investigated in the aqueous- and hydrox abon medium in the presence of various questities of i on salts. Here the lacking of a direct binding between the sineties of the decomposition of the hydrogen perceide and the kinetics of polymerization was found. Furthermore it ass found that the introduction of the polymerization is not immediately connected with ox.-ped. reactions. The entire process occurs only after the complete decomposition of hydrogen perovide. Finally also the structure of the products preduced by the becomposition of hydrogen peroxide was have not and in det il. Phore are 12 figures, 3 tables, and ld ref resona, T of which are Slevia.

Card 2/2

AUDUCIATION:

SHIPMT THEFT.

Institute of him - , whire der with AS Wish (Institute November 12, 180%).

1. Sthylene di mine-Oxidation-reduction reactions

2. Hydroperoxide-Oxidation-reduction reactions 3. Polymerization

<u> APPROVED FOR RELFASE: 06/23/11:\_\_CIA-RDP86-00513R000204400009-6</u>

AUTHORS:

Dolgoplosk, B. A., rerusalimskiy, B. L., Milovskaya, fe. b.,

Belonovskaya, G. F.

TITLE:

The Cell Effect and the Thermal Stability of Polymers

(Effekt kletki i termostabil'nost' polimerov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 4, pp. 785-785

(USSR)

ABSTRACT:

A great number of organic substances are known whose thermal stability is much weaker in the solution or melt than in the solid state. The most typical examples are compounds with unstable bindings (peroxides, azo- and diazo-compounds) which begin to decompose only at their melting temperature. At the same time they decompose much quicker in solutions and at a much lower temperature (Table 1). According to the authors' opinion the following experimental results render it possible to relate the mentioned phenomenon to a rapid increase of the cell effect (- reaction of the primary recombination of the free radicals) in viscous and solid media. As was proved already earlier the thermal decomposition of methyl-phenyl triazene in a medium of hydrocarbons leads

Card 1/4

The Cell Effect and the Thermal Stability of Polymers

SOV/20-120-4-26/67

to the formation of methane and methyl-aniline (Hef 5). It is most probable that the latter forms as a result of recombination of the radicals which are released at the moment of decomposition in the "cell". The authors proved that in the case of decomposition of methyl-phenyl triazene in systems of hydrocarbon polymers the methane yield decreases with in creasing viscosity of the medium. At the same time it  $w_{\rm LS}$ proved that the yield of the product of primary recombination namely of the methylaniline increases (Table 2). The above mentioned data give evidence as to a considerable influence of the viscosity of the medium on the efficiency of inter action in the cell. The results obtained render possible the discussion of a possible influence of the state of aggrega tion on the thermal stability of those substances that contain unstable bindings (Table I) as well as of the polymers that have a high fusing temperature. The difference in behavior of such compounds in solid state and in solution (or melt) may be explained by means of the particularly important part played by the cell effect in solid state. Polyparaxylylene decomposes only after having been melted (at 425°). In the solution this is the case already at 302°. These polymers

Card 2/4

The Cell Effect and the Thermal Stability of Folymers

are apparently "overheated"; only after surpassing the temperature of vitrification they undergo a destructive de composition when the viscosity of the system decreases con siderably. Hence we may conclude that the thermal starilars of polymers with a high melting temperature displays abrupt jumps in connection with the transition from solid state into an elastic one and from the elastic state into the solution. From the above mentioned it may be concluded that the task of increasing the thermal stability of carbu atom chain polymers in vitrified state consists above all in increasing their melting temperature. A high thermal stability of rubber-like polymers can apparently only be reached by the stability of the skeleton bindings of the main chain. There are 3 tables and 8 references, 2 of which are Soviet.

ASSOCIATION:

Institut vysokomolekulyarnykh soyedinany Akademii nauk 1952 (Institute of High-Molecular Compounds AS USSE)

PRESENTED: Card 3/4

January 6, 1958, by V. A. Kargin, Member, leademy of Townson

The Cell Effect and the Thermal Stability of Folymers

SUBMITTED: January 4, 1958

1. Polymers—Thermodynamic properties 2. Polymers—Decomposition 3. Polymers—Molecular structure 4. Free radical—Chemical effects

Card 4/4

CIA-RDP86-00513R000204400009-6

5 (3) AUTHORS:

Belonovskaya, C. P., Vasyutina, Zh. D., SOV/79-29-3-43/61

Dolgoplosk, B. A.

TITLE:

On the Inhibiting Influence of Some Polycyclic Aromatic Compounds Upon the Polymerization Process (Ob ingibiruyushchem vliyanii nekotorykh politsiklicheskikh aromaticheskikh soye-

dineniy na protsesse polimerizatsii)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 955-958 (USSR)

ABSTRACT:

The capability of polycyclic hydrocarbons to react with free radicals has been investigated in many papers (Refs 1-7). The present report describes data concerning the capability of some polycyclic compounds to react with the radical CH3 . .

which forms on the thermal decay of methylphenyltriazine, as well as the influence exerted by the same compounds upon the thermal polymerization process of styrene at 100°. Methylphenyltriazine was used as a source of the free methyl radi-

cals. It decays thermally according to the scheme  $c_{6}H_{5}-N=N-NHCH_{3}$  —  $c_{6}H_{5}NH_{0}+N_{2}+CH_{3}$ . The methyl radical

cleaves off the hydrogen from the solvent and forms methane, the yield of which, in the case of the saturated hydrocarbons

Card 1/3

On the Inhibiting Influence of Some Polycyclic Aromatic Compounds Upon the Polymerization Process

SOV/79-29-3-43/61

amounts to 55-60 % (calculated on the theoretical yield), (Ref 8). In the case of the cleavage of methylphenyltriazine in the presence of quinones and various aromatic compounds, their methylation occurs through the radical, which fact causes a corresponding diminution of methane. In this case, the following concurring reactions take place:

With one and the same solvent the amount of methane is capable of characterizing the activity of one or the other compound in relation to the methyl radical. The decay of methylphenyl-triazine took place at 110° in the solution of a dry, purified gasoline, which was distilled over in the range of 90-110°. The data obtained are shown in the table. They thus characterize the relative activity of various polycyclic aromatic hydrocarbons to the methyl radical. Among the hydrocarbons investigated, dibenzpyrene proved to be the most efficient

Card 2/3

On the Inhibiting Influence of Some Polycyclic Aromatic Compounds Upon the Polymerization Process

SGV/79-29-3-43/61

inhibitor in the thermal polymerization process of styrene. There are 1 figure, 1 table, and 9 references, 2 of which are Soviet.

ASSOCIATION:

Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds of the Academy of

Sciences, USSR)

SUBMITTED:

January 16, 1958

Card 3/3

SOV/20-128-6-22/63

5.3831 <del>5 (3)</del> AUTHORS:

Belonovskaya, G. P., Bresler, S. Ye., Dolgoplosk, B. A., Corresponding Member

AS USSR, Os'minskaya, A. T., Popov, A. G.

TITLE:

Inhibition of a Chain Decomposition of Polymers by Destruction of the Structure Homogeneity by Means of the Copolymerization

Method

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, pp 1179 - 1181

(USSR)

ABSTRACT:

If a small quantity of a more readily polymerizable monomer B is added to a monomer A, a polymerization inhibition effect is produced (Ref 1). This effect is caused by the low reactivity of the radical .B° at the end of a growing chain with respect to the principal monomer. The introduction of a certain quantity of a less reactive monomer into the monomer B is of no importance to polymerization kinetics. The basic rules, particular to the process of radical polymerization, may appear in the thermal chain decomposition of polymers. It was to be expected that in this kind of destruction the process would be inhibited by introduction of small quantities of components of a different activity into the homopolymer chain. In the case of such a

Card 1/3

---- or even 1.5% of

66418

Inhibition of a Chain Decomposition of Polymers by Destruction of the Structure Homogeneity by Means of the Copolymerization Method

the links of methacrylic acid into the polymethyl-methacrylate chain influences the destruction kinetics of the polymer (Curves 1,2). At a methacrylic-acid content of 15% in the copolymer, the destruction rate is only about 1/8 of that of the homopolymer (Fig 1: 1,3). A similar picture is delivered by the methyl-methacrylate copolymer with methyl-methacrylic amide (Fig 1: 5). The increase in thermal stability of the polymers is evidently only connected with the transition from the homopolymer to the copolymer. The addition of vinyl derivatives (Ref 2) for this purpose represents a special case of the abovementioned phenomenon. There are 3 figures and 4 Soviet references.

ASSOCIATION:

Institut vysokomolskulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds of the Academy of Sciences, USSR)

SUBMITTED:

July 8, 1959

Card 3/3

4

66483

5(2,3) 5. 383/ SOV/20-12--1-29/64
AUTHORS: Belonovskaya, G. P., Dolgoplock, B. A., Corresponding Member, AS USSR, Chernova, Zh. D.

TITLL: Investigation of the Reaction of the Oxidation of TiCl, With Hydroperoxide of Isopropylbenzene in Aqueous and Hydrodarbon Media

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 1, pp 105 - 108 (USSR)

Oxidating chain processes—are experted to take place in polymers containing T12+ because of its oxidation to T12+; above all, destruction or construction of polymers may be expected. Hence it was attempted to investigate this oxidation and its occurrence without secondary processes which deteriorate the structure and properties of the polymers. The exidation mentioned in the title was investigated in aqueous solutions and hydrocarbons. Figure 1 shows the interaction of TiCl; with the above hydroperoxide in aqueous and aqueous-alcoholic solution with and without nitrile of acrylic acid at 20° and 0°, respectively. The ratio of TiCl; used per 1 mol hydroperoxide is 1:2; in the presence of the acceptor of free radicals (nitrile of

Card 1/3

ABSTRACT:

### 66483

Investigation of the Reaction of the Oxidation of SOV/20-100-1-20/64TiCl<sub>3</sub> With Hydroperoxide of Isopropylbenzene in Aqueous and Hydrocarbon Media

acrylic acid, methylmethacrylate) it is almost 1:1. Reaction takes place also at low temperatures and does not stop until -70°. If the acceptor mentioned is absent, 15.17, of methane (with regard to hydroperoxide) is laberated at 200 an the case of to hydroperoxide solution. With a ratio of Till, thydroperoxide = 2:1 at 200 the main products of hydropercyide decomposition are: dimethylphenylcarbinol (65-75% yield) and acetophenone (15-17%). If it is allowed to stand, TiO2 is quantitatively separated from aqueous solution. On account of the above data the authors assume that the processes (1)-(1) take place in aqueous solutions (see Diagram). The reactions (2) and (3) are repressed in the presence of the above acceptor. The reaction mentioned in the title can be used for introducing polymerization in emulsion media at temperatures to -50°. Moreover, it can be used for homogeneous olyperization of partially water-soluble monomers (nitrile of acrylic hold, methylmethacrylate) at low temperatures. These substances react in a hydrocarbon medium (benzene with 8-10% absolute ethanol) in a ratio close to 1:1. Since reaction (2) seems to be specific for radicals of the type RO' (HO') only, it cannot be ased in hydrocarbon media for the introduction of processes with great chain length

Cara 2/3

Inventigation of the Reaction of the exidation of DOV, Norther 1997 of TiCl 3 With Hydroperoxide of Isopropylbenzene in Aqueous and Hydroparbon Media

The system TiCl3-hydroperoxide is very effective for processes with short chains (e.g. construction of rusper). Table 2 shows the inhibition of polybutadiene and polyisoprine construction by benzoquinone, nitrobenzene, dimitrobenzene, and neozone-D (phenyl-3-naphthylamine). The above results show that the oxidation of Ti<sup>3+</sup> salts takes place by means of hydroperoxide involved in chain radical reactions. The latter can introduce the polyderization process in aqueous media. They lead to rubber construction in hydrocarbon media. These processes can be repressed by specific inhibitors; at the same time, secondary radical processes can be eliminated. There are 1 figure, 2 tables, and 5 Soviet references.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds of the Academy of Sciences, USSR)

Jordines, OSSA)

SUBMITTED: July 10, 1959

Card 3/3

\$/195/62/66A/962/GH /0.

AUTHORS:

Belonovskaya, G. P., Dolgoplosk, B. A., Cherneva, Zh. i

TITLE.

Study of the exidation of  $\operatorname{TiCl}_{\frac{1}{2}}$  in hydrovarian and aqueous

madia

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4. no. 1. 06., 161 - 166

TEXT: A. N. Nesmeyanov et al. (Dokl. AN SSSR, 95.8 %, 1954) has shown that the oxidation of Ti(OR) by oxygen proceeds via the free radical (OR) TiO. The oxidation reactions of TiOl, by oxygen and hydropercycles were to be studied in connection with the polymerization with Ziegler catalysts. Colloids, 1 - 2 and 8 - 10% solutions of TiOl, in absolute C2H5OH with benzene, acidified with glacial acetic acid were rapidly oxidized by oxygen at 18 - 20°C. In solutions of cis-1,4-polysceptene (II) and cis-1,4-polybutadiene (II), this caused deep destruction of polymers and a decrease in intrinsic viscosity for I from 2.03 to 1.3, and for II from 3.92 to 2.7. TiOl<sub>4</sub> 4C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub> was separated during the exidation of Card ./4

Study of the oxidation of TiCl3...

S/190/62/004/002/001/021 B110/B101

and 15 - 17% acetophenone are formed at a TiCl3: hydroperoxide ratio of 2: 1 in the absence of acceptors. The reactions:

$$\begin{array}{c} \operatorname{CH_{5}} & \operatorname{CH_{5}} \\ \operatorname{C_{6}H_{6}} - \operatorname{C} - \operatorname{OOH} + \operatorname{CiCl_{5}} \rightarrow \operatorname{C_{6}H_{5}} - \operatorname{CO} + \operatorname{HOTiCl_{5}} \\ \operatorname{CH_{5}} & \operatorname{CH_{5}} \end{array} \tag{4}$$

$$\begin{array}{c}
\operatorname{CH}^{2} \\
\operatorname{C}^{9}\operatorname{H}^{2} - \operatorname{CO}_{\bullet} & \to \operatorname{C}^{9}\operatorname{H}^{9}\operatorname{COCH}^{3} + \operatorname{CH}^{3} & \to \operatorname{CH}^{9} \\
\operatorname{CH}^{3} & & & & & & & & & & & \\
\operatorname{CH}^{3} & & & & & & & & & & & \\
\end{array}$$
(6)

Card 3/4

Study of the oxidation of TiCl3...

S/190/62/004/002/001/021 B110/B101

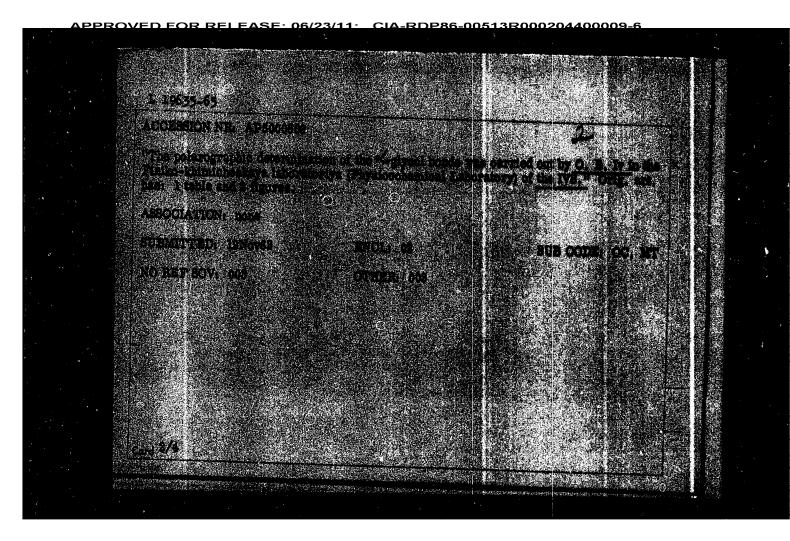
are assumed to take place under the action of TiCl, with hydroperoxide, (5) and (6) do not occur in the presence of acceptors. There are 2 figures, 5 tables, and 10 references: 6 Soviet and 4 non-Soviet. The reference to the English-language publication reads as follows: M. S. Kharash, A. Fono, W. Nudenberg, J. Organ. Chem., 16, 113, 1951.

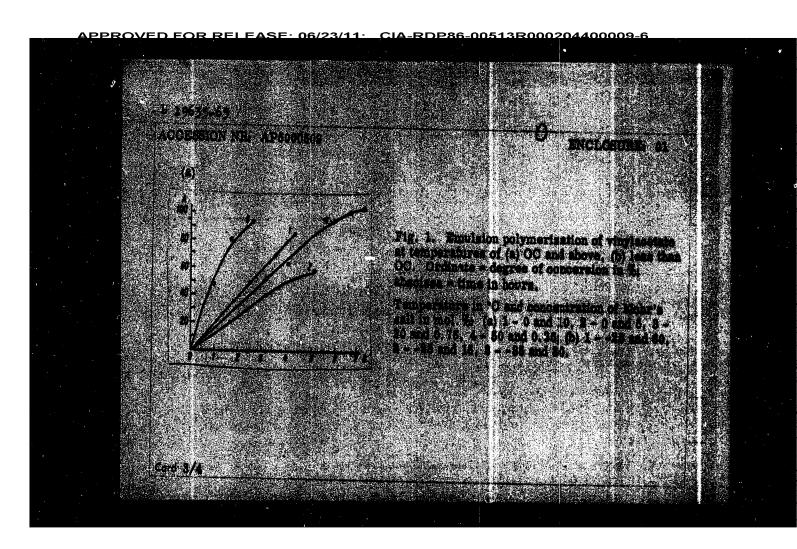
ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-molecular Compounds AS USSR)

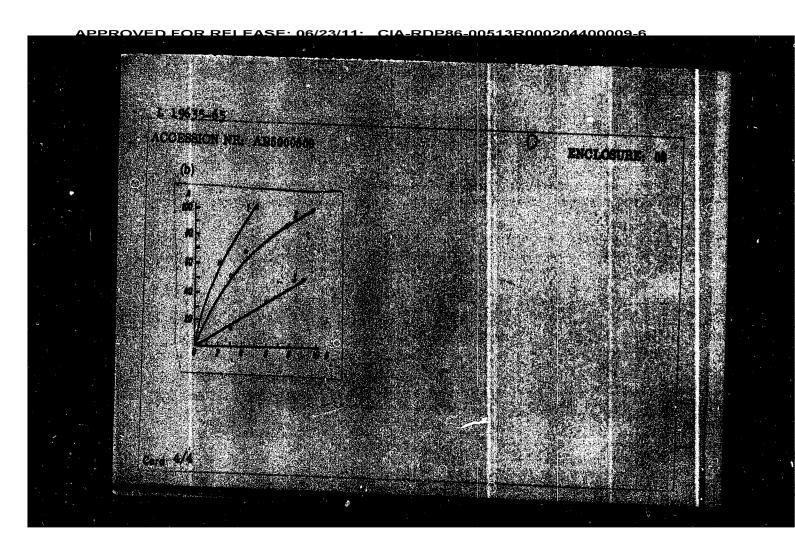
SUBMITTED: November 24, 1960

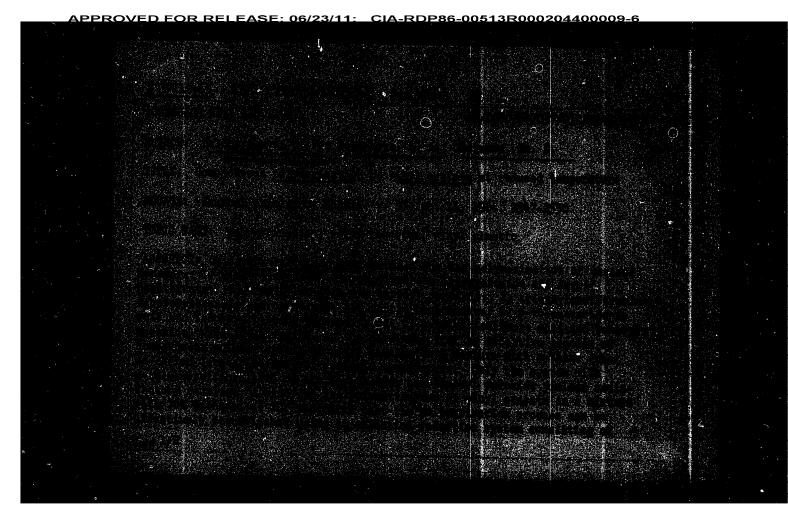
Card 4/4

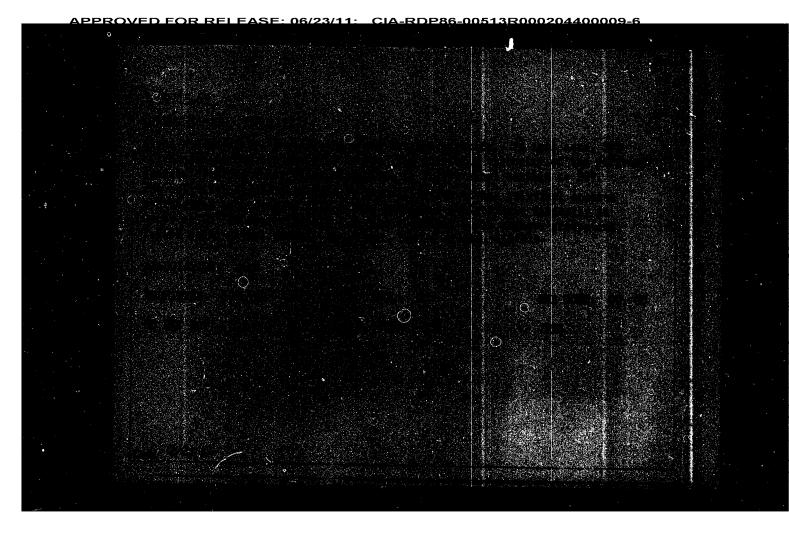
# APPROVED FOR RELEASE, 06/23/11: CIA-RDP86-00513R000204400009-6 \*\*\*CHARLES AND CONTROL OF THE CO











ELONOVSKIY, A. Installation and operation of the MMT-2h relay regulator. To he Tankist, To 12, 1948.

BELONO SHIY, A. A good textbook for a couse in electrical engineerin . We l2. Tankist, No 12, 1948.

PHASE I BOOK EXPLOITATION

133

Belonovskiy, Anatoliy Sergeyevich, and Menskiy, Boris Mikhaylovich

Avtomatizirovannyy privod s elektromashinnym usilitelem (Automated Drive With an Amplidyne) Moscow, Voyen. izd-vo Min-vo obor. SSSR, 1956. 130 p. No. of copies printed not given.

Ed.: Shiryayev, N. P., Engineer-Captain; Tech. Ed.: Sleptsova, Ye. N.

PURPOSE: The book is intended for persons familiar with the basic laws of electrical engineering. It can, therefore, be utilized by a wide circle of readers.

COVERAGE: The book describes the arrangement, basic properties and principles of operation of low-capacity automated electric drives with an amplidyne. These drives have found wide application in industry and in the military equipment of the Soviet armed forces (p. 3). A description of 13 types of Soviet-produced amplidynes with specifications and a detailed drawing of an EMUSFM type amplidyne is given (pp. 53-60). A polarized relay of the RP-5 type is described and illustrated (pp.79-82). No personalities are mentioned and only one Soviet reference is given in a footnote(p.131).

Card 1/3

-yznierici (31.17

Automated Drive With an Amplidyne 133 TABLE OF CONTENTS:	
Introduction	
I. Some data on the electric drive  Properties and control of a d-c motor with independent excitation  The motor-generator system	3 5 5
Basic properties and components of an automated electric drive A motor-generator system with vibration control	15 20 26
II. The Amplidyne Operating principle	31
External characteristics Amplification factor Advantageous features Defects Special design features Soviet-produced amplidynes	32 39 42 45 48 51
Card 2/3	53

	-
Automated Drive With an Amplidyne	
III. A Motor-generator System with a Direct-control Amplidyne	
with a Direct-control A-11	
Control of the system Voltage feedback	60
Speed feedback	61
The preliminary amplifier The polarized relay	65 72
A motor relay	15
Alter Motor-generator system with complete	<b>7</b> 7
Afternating feedback amplidyne and preliminary	79
A motor-generator system with amplidyne and preliminary amplif Alternating feedback The speed characteristics as	rier 82
The speed characteristics of a system  Maintaining system stability	89
5 -55 sem stability	92
IV. Amplidume Tara	
IV. Amplidyne Follow-up System	94
Interrupted control follow-up system Selsyns and their applications	98
belsyns and their application system	
Selsyns and their application in remote angle measurement Continuous control of the co	100
Continuous control control continuous control continuous control control control control control control control control control continuous control co	104
Continuous control follow-up system  System with approximate	112
	119
AVAILABLE: Library of Congress (TK4058 .Rk2)	
Card 3/3 (TK4058 .B43)	125
JJP/bmd	
30 July 58	

BELONOVSKIY, A.S., kand.tekhn.nauk, dotsent (Moskva); ZDROK, A.G., kand.tekhn.nauk, dotsemt (Moskva) Second Conference on the Electrification of Transportation. Elektrichestvo no.5:85-86 My '61. (MIRA 14 (MIRA 14:9) (Railroads--Electrification)

BELONOZHKA, N.M.

Treatment of terminal conditions by intra-arterial blood transfusion.

Akt.vop.perel.krovi no.4:118-121 155. (MIRA 13:1)

1. Travmatologicheskoye otdeleniye gorodskoy bol'nity g. Shakhty.
(SHOCK) (BLOOD--TRANSFUSION)

AGEYEV, V.I.; EELONOZHKIN, A.I., redaktor; SPIRIDONOV, N.F., tekhnicheskiy redaktor

[Late fall planting of sunflowers] Podzimnii posev podsoluschnika.
[Kuibyshev] Kuihyshevskoe kn-vo, 1954. 23 p. (MLRA 9:8)

(Sunflowers)

BEZZUBIK, K.V., sostavitel'; BELONOZHKIN, A.I., sostavitel'; KHROLIKOV, A.G., red.; SHCHERBAKOV, A.I., tekhn.red.

[On collective livestock farms; practices of "Put' k kommunizmu" stockbreeders in Kinel' District] Na kolkhoznykh fermakh; iz opyta raboty zhivotnovodov kolkhoza "Put' k kommunizmu", Kinel'-skogo raiona. Kuibyshevskoe knizhnoe izd-vo, 1957. 51 p.

(MIRA 12:1)

(Kinel District -- Stock and stockbreeding)

HELONOZHKIN, I.A., fel'dsher (g.Boyarka Kiyevskoy oblasti)

Role of records and reports in feldsher work, 7el'i. i akush. 27
no.3:44-45 Mr '62. (MEDICAL RECORDS)

AVDEYEV, Yu.G., inzh.; BELONOZHKO, A.F., inzh.

Determination of the optimum diameter of boreholes in drilling with rock drills, Shakht, stroi. 7 no.6:17-19
Je \*63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovateliskiy institut tsvetnykh metallov (for Avdeyev), 2. Trest Svinetsshakhtostroy (for Belonozhko).

(Rock drills)

BELONOZHKO, A.M.

Development of the production of chemicals in the coke and common co

BELONOZHKO, T. I.

\*\*Comment and the state of the product of the product of the comment at the c

BELONOZHKO, F. I.,

"A New Raw Material, and Ways of Processing It into Carotene Preparations." (Dissertation for Degree of Candidate of Technical Sciences) Moscow Technological Inst of Food Industry, Moscow, 1955

So: M-1036 28 Mar 56

<u> APPROVED FOR RELFASE: 06/23/11: \_CIA-RDP86-00513R000204400009-6</u>

BELOUOZHKO, G. A., Klev "Unithful is the Therapy of Interdestions by M. comp." a pager presented at the FifthConference of the Unrai ion Scriety of Physiologists. Biochemists, and Pherascologists, 26 May -2 June 1994. When there RELONCEURO, A. I.; MINENKO, Aleksey Tefremovich; ERHCHKO, Q.T.;

DABILANTO, A. I.; LATRIK, V. Ya.; LEVCHUK, G.A.; LUGANSKIY, W. I.;

MORGUNOV, I. N.; LOKHMATYY, Ye. L. tekhredaktor

[Organisation of medical mervices in connection with widespread contamination and injury of the population Jorganisateila meditainskog obespechenila pri massovykh porashenilakh naselenila. Pod red. A. E. Minenko, Kiev, Gos. med. izd-vo USSE, 1957.

(ATOMIC MEDICINE)

(MIRA 10:5)

BELLOVOZHAD ID.

"Use of the New Antidote Unithiol in Intoxications by Arsenic and Mercury Compounds," by Candidates of Medical Sciences G. A. B. M. Shehepotin, Chair of Therapy, Sanitary-Hygiene Faculty, Kiev Medical Institute and Laboratory of Experimental Therapy, Ukrainian Scientific-Research Sanitary-Chemical Institute, Vrachebnoye Delo, No 1, Jan 57, p 87

The article reports results of the use of unithiol in the therapy of intoxications by arsen'c and mercury compounds. Most of the patients were in serious condition when received at the clinic. Treatment with unithiol began at various times following intoxications. In addition to unithiol, other means of therapy were administered, i.e., washing of the gastro-intestinal tract, subcutaneous injections of 5 percent solutions of glucose and physiological solution, and cardiac stimulants. All the patients duced no side effects. On the basis of the results obtained, it was concluded that unithiol was an effective therapeutic agent in intoxications eaused by arsenic and mercury compounds. (U)

BELONOZHRO, G.A. IEtionozhko, H.O.): 1908ak, Yu.k.

Ballistocardiographic and electromarniographic investigations during acuto radiation sickness. Fiziol. shur. [.kr.] 9
no.44647-550 Jl.Ag '63. (MRA 10:10)

1. Laboratoriya shtendy 1 modelyuvantya makilan leebahuu eksperimental'noi i klindehnot ankologii Mantayashim okhoroni zdoroy'ya UkiH, Kiiv.

WW/JW/JWD

ACC NR: AP6029970

SOURCE CODE: UR/0413/66/000/015/0162/0162

B

Okhil'kov, G. T.; Sergeyev, B. B.; Belonozhko, G. G.

ORG: none

PLTLE: Ignition composition for bridgeless electroigniters. Class 78, 184677

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 162

TOPIC TAGS: primer, explosive, detonator, ignition

ABSTRACT: An Author Certificate has been issued for an ignition composition for electric igniters without bridge circuits. To secure safe operation of the electric igniters in the presence of eddy currents and increase the stability of the electric resistance, the composition contains components in the following concentrations: potassium chlorate, 49-51%; lead rhodanide, 34.7-36.7%; crystalline graphite, 15-13%; and high viscosity colloxyline, 0.2-0.4%. [W.A. 88] [PV]

SUB CODE: 194/SUBM DATE: 18Jan65/

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204400009-6</u> BELONOZHKO, I.A., inzh. Automatic machine for steel wire coiling for metal bruches.

Sudostroenie 28 no.7:68-69 Jl 160. (Min (Metalworking machinery) (MIKA 15:8) BELONOZHKO Ivan Fedorovich; SEUFOV, Leonid Petrovich; MAKRUSHINA, Ye.A., ved. red. [Filtration equipment operator] Filtroval'shchik. Mo-skva, Nedra, 1965. 75 p. (MIRA 18:8) SHUPOV, L.P.; BELONOZHKO, I.F.; GISHCHUK, B.V.; KONONOVA, A.P.; MASLENNIKOVA, K.P.; SVERDEL', E.I.; ARTEMOVA, A.A.

Selaction of a synthetic fiber filter cloth for thin iron ore concentrators. Gor.zhur. no.10:60-62 0 64.

1. Nauchno-issledovatel skiy i proyektnyv institut po obogashcheniyu i aglomeratsii rud chernyki matallov, Krivoy Rog (for
Shupov, Belonozhko, Gishchuk). 2. Ukrainskiy nauchno-issledovatel skiy institut po pererabotke iskusstvennogo i sinteticheskogo
volokna (for Kononova, Maslennikova). 3. Yuzhnyy gorno-obogatitel nyy kombinat, Krivoy Rog (for Sverdel, Artemova).

BELGEOZHRO, Ivan Fedorovich; PErchov, Yuriy Sergeyevich [Tumping machinery operator] Maskinist maschev. Mrskva, Izd-vo "Redra," 1964. 17 p. (MikA 17:4) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204400009-6 SHUPOV, L.P.; HELONOZHRO, I.F. Results of testing a drum vacuum-filter with a removable belt. Net. i gornorud. prom. no.3:67-69 Ny-Je \*65.

(MINA 18:11)

MARGUEIS, V.G., ensh., BELGNOZHEO, L.F., insh.; TELENSK, b.F., Sand., tekhno mark

Using jet action counterflow-type millio for the go rd.r.s. of teon cres. Ger. zhur. no. 12 12 26 15 10 . (Million 18.12)

1. Nauchno-issledovate (lasty proyektom tactitut protegate sheheniyu i aglameratsii rud chornykh metalasv. Erivoy Bog (for Margulia, Belonozhko). 2. Vaescyužnyy asuchno-istledovateliskly institut novykh atroitelinykh meterialev Akademi afterialevatelistva i arkhitektury SSSA (for Telinov).

## 

RELONUZHKO, I.I.

22555. Belonozhko, I.I. Produktivmost' Mnogoletnikh Fravosmesei I

Ikh Vozdeistviye Na Plodorodiye Pochvy. Sov. Agronomiya, 1949, No.7

s. 48-58.

30: Letopis No. 30, 1949

BELONOZH KO, I.I.

Sowing

Period for sowing perennial grass mixtures. Sov. agron. 10 no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

BELOVOZHKO, I. I.

"Biological Basis for the Date of Sowing of Perennial Grasses in Crop Rotation." Dr Agr Sci, Botanical Inst, Acad Sci USSR, Leningrad, 1953. (RZhbiol, No. 1, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

BELONOZHKO, Mikhail Arsen'yevich[Bilonozhko, M.A.]; LESIK, Fedor
Lukich [Lesyk, F.L.]. Prinimali uchastiye: ZRIBNYAK, L.Ya.,
kand. ekonom. nauk; LUK'YANOV, V.O., kand. ekonom. nauk;
CHMIR, R.D. [Chmyr, R.D.], red.; GORBUNOVA, N.M. [Horbunova,
N.M.], tekhn. red.

[Plant growing; manual for secondary schools] Roslynmytstwo; pidruchnyk dlia seredn'oi shkoly. Vyd.2., perer. Kyiv, Radians'ka shkola, 1961. 202 p. (MIRA 15:7) (Ukraine—Field crops) (Ukraine—Pastures and meadows)

CIA-RDP86-00513R000204400009-6

1467 CON 1860 11 11

BELONOZHKO, V.M.

Changes in the quantity of circulating blood, its volume per minute, the resistance of capillaries, the hydrophilous properties of tissues, the vital lung capacity and gases in the blood during various stages of wound sepsis. Medych.zhur. 17:353-363 '47.

(MIRA 11:1)

1. Iz viddilu funktsional'noi terapii (zav. - prof. F.Ya.Primak) Ukrains'kogo institutu klinichnoi meditsini (direktor - akad. M.D.Strazhesko)

(BLOOD--EXAM INATION) (WOUNDS)

BEKENOZHKE, V. M

BELONOZHKO, V.M., kand.med.nauk; PRIMAK, V.M.; KUMPAN, K.O.; CHUPRINA, K.F.; ZANOZDRA, M.S.; VOLKOVA, I.O.

Role of oxygen therapy in controlling a hypotensive syndrome. Medych. zhur. 21 no.6:44-54 '51. (MIRA 11:1)

1. Z viddilu funktsional'noi terapii (zav. - prof. F.Ya.Primak)
Ukrains'kogo institutu klinichnoi meditsini (direktor - akad.
M.D.Strazhesko)
(HYPOTENSION) (OXYGEN--THERAPEUTIC USE)

BELONSOV, A. P., Assistant

"Investigation of the Influence of Various Factors on the Finish of Machined Surface of Steel Upon Fine Boring of Holes." Sub 19 Jun 47, Moscow Automotive Mechanics Inst

Dissertations presented for degrees in science and engineering in Mescow in 1947

SO: Sum No. 457, 18 Apr 55

BELONSOV, V. D. Cand. Tech. Sci.

Dissertation: "Nonisothermal Flow of Gas in Main Pipes." Moscow Order of the Labor Red Banner Petroleum Inst imeni Academician Gubkin, 4 Nov 47.

SO: Vechernyaya Moskva, Nov, 1947 (Project #17836)

MEDNIKOV, F.A.; BELONUCHKIN, P.P.

Ten-year system of spruce tapping in the Tikhvin woodchemical establishments. Gidroliz.i lesokhim.prom. 13 (MIRA 13:7) no.3:25-26 60.

Leningradskaya lesotekhnicheskaya akademiya (for Mednikov).
 Leningradskiy sovnarkhoz (for Belonuchkin).
 (Leningrad Economic Region—Tree tapping)

EWT(d)/EWT(m)/T/EWA(m)-2 IJP(c) SOURCE CODE: UR/0367/65/002/003/0552/0561 ACC NR: AP6001163

**ಿ**ಕತ 44 AUTHOR: Beloozerov, N. N.

ORG: Institute of Theoretical and Experimental Physics. GKIAE (Institut teoreticheskoy i eksperimental noy fiziki)

TITLE: Solution of equation for the scattering of a neutron by a deuteron at high energies

SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 552-561

TOPIC TAGS: neutron scattering, douteron, scattering amplitude

ABSTRACT: A solution is obtained for the Skornyakov - Ter-Martirosvan

which is obtained 
$$\frac{1}{2(p_1^3 + p_2^3 + (p_1p_2) - mE)} + \frac{\lambda}{4\pi^3} \int \frac{M(q, p_2; E)}{p_1^3 + (p_1q) + q^3 - mE} \frac{d^3q}{(q^3 - \frac{1}{2}mE)^{\frac{1}{12}}}$$

energies much higher than the deuteron binding energy, i.e., the corresponding equation for the partial amplitudes is solved. The Danilov procedure is used to eliminate the

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204400009-6

L 11968-66

ACC NR: AP6001163  $M_{l}(p_{l},p_{l};E) = Q_{l}\left(\frac{p_{l}^{3} + p_{l}^{3} - mE}{p_{l}p_{l}}\right) + \left(-\frac{1}{2}\right)^{l} \int_{0}^{\infty} Q_{l}\left(\frac{p_{l}^{2} + q^{2} - mE}{p_{l}q}\right) \frac{M_{l}(q_{l},p_{l};E)}{(q^{2} - \frac{1}{2})smE)^{l}} dq_{l}$ indeterminacy of the s-wave. Author thanks K. A. Ter-Martirogyan for the suggested topic and attention to this work. Orig. art. has: 2 figures and 18 formulas.

SUB CODE: 20 / SUBM DATE: 04Feb65

L 33409-66 EWT(1) IJP(c)

ACC NR: AP6015306 (A, N)

SOURCE CODE: UR/0057/66/036/005/0852/0859

AUTHOR: Beloozerov, V.N.

ORG: none

TITLE: Constraint of a superconducting sphere by a system of circular currents

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 5, 1966, 852-859

TOPIC TAGS: axial magnetic field, nonhomogeneous magnetic field, mechanicl force, superconductivity

ABSTRACT: The author discusses the forces on a superconducting sphere due to the magnetic field of a system of circular windings. In the first section the sphere is assumed to be small compared with the radii of the windings. The potential energy of the sphere in the magnetic field is then equal to the scaler product of the magnetic moment of the sphere and the magnetic field strength, and is thus proportional to the square of the field strength. It is shown that the superconducting sphere can be supported against gravity by a single horizontal circular winding provided it is neither too heavy nor too light (for a given value of the current in the winding). If the sphere is too light it rises into a region where it is laterally unstable and falls off to the side. An arbitrarily light sphere can be stably supported by a sys-

Card 1/2

UDC: 538.323

L 33409-66

ACC NR: AP6015306

tem of two or more parallel coaxial circular windings, but the "rigidity" (second derivative of the potential energy at the equilibrium position) of wuch a system cannot be the same in all directions. Equal rigidity in all directions can be achieved by employing theree mutually perpendicular systems of two parallel circular windings each. In the last section the author uses equations given by M.L.Levin (ZhTF 34, 395, 1964) to discuss briefly the forces on a superconducting sphere of finite radius due to the magnetic fields of circular windings. In this section account is taken of the changes in the currents in the windings due to the motion of the sphere. The author thanks M.L.Levin for assistance with the work. Orig. art. has: 29 formulas and 4 figures.

SUB CODE: 20/ SUBM DATE: 15Apr65/ ORIG REF: 005/ OTH REF: 002

Card 2/2 ULR

	L 21723-66 EWT(1) IJP(c) GG
	ACC NR: APG004871 SOURCE CODE: UR/0057/66/036/001/0003/0006
	Note for: Beloozerov, V.N.; Levin, M.L.
	ORG: none
	21, 44, 5
	TITLE: Method of images in magnetostatic problems involving a spherical superconduc-
	tive boundary
	SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 1, 1966, 3-6
	TOPIC TAGS: magnetic field, magnotostatics, superconductivity, spheric
	geometry, electric current, electronic image, electronic circuit
,	ABSTRACT: One of the authors has previously shown that the magnetic field produced
	by a current flowing in a closed circuit every element of which is at the same distance
	from the center of a superconducting sphere is equal to the sum of the magnetic field produced in the absence of the superconducting sphere by the original current and that
	produced by a certain image current flowing in a circuit obtained from the original
	circuit by inversion in the sphere (M.L.Levin, ZhTF, 33, 395, 1963). In the present
	paper this image technique is generalized to the case in which the elements of the
	circuit are not all at the same distance from the center of the sphere. In this case the image currents comprise a nonuniform current flowing in the image circuit obtained
	by inversion in the sphere and radial currents flowing between the center of the sphere

UDC: 538.12 ≥

## L 21723-66

ACC NR: AP6004871

and the elements of the image circuit. The total image current is solenoidal. This technique can also be applied to calculate the magnetic field within a spherical cavity with a superconducting wall. In this case the image circuit is outside the spherical cavity and the radial image currents flow between elements of the image circuit and infinity. This technique is illustrated with several simple examples, including calculation of the field of a point magnetic dipole in the presence of a superconducting sphere and the radiation of a magnetic dipole moving at nonrelativistic velocity past a superconducting sphere. Orig. art. has: 17 formulas and 2 figures,

SUB CODE:09,20/

SUBM DATE: / 18Mar65/

ORIG REF: 001/

OTH REF: 000

9(0)

SOV/112-59-2-3739

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959. Nr 2, p 217 (USSR)

AUTHOR: Belopashtsev A. K.

TITLE: Automatic Machine for Manufacturing Wire-Type Trimming Capacitors (Avtomat dlya izgotovleniya provolochnykh podstroyechnykh kondensatorov)

PERIODICAL: Radiotekhn proizv., 1957, Nr 10, pp 47-48

ABSTRACT: The capacitor is a small length of PEL-1 wire with a stripped end; a PEL-0.25 wire is wound on the insulated part of the PEL-1 wire and also has a stripped end. The capacitance between the heavier and lighter wires forms a capacitor. The PEL-1 wire is fed into the automatic machine axially and is smeared by a glue which secures the tightly-wound PEL-0.25 wire. After the required length of PEL-0.25 wire has been wound, the pitch of the winding is changed (to 3 mm) and the last part of the wire subject to stripping is wound. After that, the billet is cut off, the tightly wound part is secured in a chuck, and the loosely wound part is subjected to the action of stripping brushes which

Card 1/2

SOV/112-59-2-3739

Automatic Machine for Manufacturing Wire-Type Trimming Capacitors

remove enamel from both the heavier and lighter wires. After stripping, the capacitor is pushed out of the chuck. The machine productivity is 2,500 capacitors per hour.

V.T.R.

Card 2/2

BONDARENKO, G.; BELOPAVLIC S.

Urclithiasis in the Autonomous Province of Kosmet and Metchija.
Acta chir. Iugosl. 8 no.1:70-73 '61.

1. Urcloski otsek Opste bolnice u Pristini (Sef dr G.Bondarenko).

(URINARY CALJULI statist)

THE ECHNIST PROPERTY

VOIADZHIEV, Georgi, Prof.; IARUKOV, Liubonir, d-r.; BKLOPITOV, Borislav d-r.

Considerations on the female pelvis. Izv.med.inst., Sofia 11-12: 689-719 1955.

Klinika po akusherstvo i ginekologiia (zav.katedreta: prof. d-r Georgi Voiadzhiev) pri visshiia meditsinski institut
 Chervenkov-Sofiia.
 (PELVIMETRY,

analysis of pelvic dimensions)

THA OIL

II. SECTION OF B. BELGITTEY OF A C. MARCHEN S.

"(Our Empretences wit' Methologometh, as Memorchage In vertative in the Hiscontal Period in Costetrics."

vosta. Suvremenna Meditsina, Vol 1:, To 11, 1950: 11 15-20.

Metracofinglish summary medifield stated allegar data on lader parameters, whereof 300 received defendable Mathematic (Candor) and 300 facebased for mathematical forms and controls averaged 300 fall black loss, Methergian 106 and deced drug 100.7% of the of the two importations also accounted placement on also and reduced entering terminal properties. In the controls and other and the two simple and other and other considerations, no references.

The partment of Obstatrich and Opper logy (Matedrata po akusherstve i ginckelogija) Head (ruhovoditel) Frof II. PMCH MVI 7, hedical College (MMI Weski meditsinski institut ) Lefia.

1/4

---

ILIEV,G.; HELOPITOV,B.; KHUHENOV,A.; VASILEV,Z. Delivery of large and giant fetuses. Akush. ginek. (Sofia) 2 no.5:25-35 \*63. SHTURKALEV, Il.; IARUKOV, L.; BELOPITOV, B. Apropos of indications for cesarean section and their evolution. Akush. ginek. (Sofia) 3 no.1:1-12 \*64 BELOPITOV, B.; MISHEV, D. Transverse prescribation; methods for the consgence to a effects on the author and child. (Data of the Hog er Medical Institute Obstatric and Gynenologic Clinic "Maid in "om" in Sofia). Akush. pinek. (Sofiia) 3 no.4001-103 to/.

# SHEMSLAIP, J. H. H. W., G.; EELOFITOV, B.; ATALASOV, D. Aperionce in the mass prevention by medication of hemoricages outing the placental period in a series of 700 deliveries. Akush. ginek. (Sofija) 4 no.3:169-175 165. 1. Vienh meditsinski institut. Coffia, Kateera po ukushersive i ginekologija (rukov.: prof. II. Shumbalov).

## APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204400009-6 1 as the most suitable. Its economic adva as the most sunature. Its scontents accounting any shown for the case of a grid system in South Bulgaria. The capital outlay for generation and transmission and for the provision of booster-transformers is analysed in detail. The increase in conductor size is plotted against current density. STATE OF THE STATE

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204400009-6 PEICEIST, Wikels: 1. Sectionity - The tele v.

# BELOPITOV, N., USSR. Inter (ed. Street, 12th, 1

## BELUITOV, H. "From tion of new systems of telephone centrals in Julgaria." p/ 37 (Tezhka Fromishlenost) Vol. 6, no. 9, tept. 1957. Cofia, plyaric US: Nonthly Index of East European Accessions (EEA) Le, Vol. 7, no. 5, and 1950

BELOPITOV, Nikola, inzh., st. n. sutr.

Possibilities of increasing wearing resistance of cutting dies. Mashinostroene 12 no.6:12-15 S '63.

1. Direktor na NIPKIEP, i chlen na Redaktsionnata kolegita, "Mashino-stroene".

6(7) AUTHOR:

Belopitov, N.R., Chief

807/111-59-8-8/30

TITLE:

Reducing Noise in ATS Talk Circuits

PERIODICAL:

Vestnik svyazi, 1959, Nr 8 pp 7-9 (USSR)

ABSTRACT:

This article details the process of depositing a layer of precious metal on the contacts of automatic telephone station (ATS) equipment in order to reduce the noise level in talk circuits, equipment for that purpose, and results obtained. The method was leveloped at the Nauchno-icale keyateltekin matitut ministers that transports is anyoned for the Ministry of Transport and Communications of the Bulgaria (Scientific Research Institute is the Ministry of Transport and Communications of the Bulgarian People's Republic). The author states that contacts in the talk circuits of new ATS equipment are now made of precious metals. However, contacts in ATS equipment in service, not make of precious metals, must be covered with a layer of precious netal in order to reduce noise in the talk sarreafts. The electric spark method upod for this papears, and described

Card 1/3

Reducing Noise in ATS Talk Circuits

77/201-59-8-4/4)

in the article, was originally discovered by V.G. and N.I. Lazarenko in 1943. The author cuttines the method, and presents the circuit aced (Fig. 1). Two instruments developed for the purpose are described and illustrated (Figs. 2, 3); the first is an ordinary DShI-100 dialer with two vibrators, the second, used for manual depositing of a precious metal layer on brushes and relay contacts, was specially constructed. Noise as a function of contact resistance is discussed; silvering of contact resistance is duced contact resistance and hence, the noise level. Noise was measured with a Neuman (Neyman) recording device. Results are presented graphically (Figs. 4, 5). The author states that even better results were obtained with gold. He states also that considering there are up to 25 contacts, noise level created by these contacts, after coating team with precious metal, is reduced approximately 105 trees. Studies of the microstructure of the silvered contact, the bond between contact metal and coating, and the hard-

Card 2/3

Reducing Noise in ATS Talk Circuits

367/111.00 0.207.

ness of the silvering were made: haraness of the silver coating (Table) was found to be 7.3 times greater than that of chemically pure silver. Mose-urements of the service life of treated contects was made (described), after 7.1 million operations of a dialor contact confetunce remained low. In comfucion, the author notes that the quality of silversation, the author notes that the quality of silversation that the deposited silver layer shows place; and no wear, service life of silver layer shows place; ally no wear, service life of silver layer shows place; ally lengthened by this method: the process recombed is automatic and the necessary apparatus cheap and simple. Some other conclusions are also presented. There are 2 photographs, 2 stropts, and 1 ared.

ASSOCIATION:

Nauchno-issledow, tettokiy institut organ meresem respubliki Bolgarii (Beientific Peacacch Instituts for Communications of the Bulgarium People's Pepulsia)

Card 3/3

BULGARIA

P. BELOPITOV, V. VASILEV and A. MLADENOVA, Gity Hospital for Rheumatic Fever of Children (Gradska detska protivorevmatichna bolnitsa), Medical Director (glaven lekar) P. BELOPITOV; and Scientific Institute for Pediatric Research (Nauchno-izsledovatelski institut po pediatriya), Director (direktor) St. KOLAROV, [Sofia.]

"Serum Penicillin Concentration During Preventive Treatment of Rheumatic Fever with the Long-Acting Penicillin Preparation Benzacillin."

Sofia, Suvremanna Meditsina, Vol 14, No 5, 1963; pp 44-47.

Abstract: Tests with Bulgarian-made benzathine penicillin, dissolved in special penicillin solvent of State Drug Control Institute (Durzhaven kontrolen institut za lekarstvenia sredstva), 6 to 8 ml. required for 1.2 million units as given to each of 8 children with rheumatic fever. Serum concentration tested on days 1-20 post-injection by inhibition of Sarcina lutea strain: irregular, only low level remained in only 4 on day 18, none on day 20. Desiderata for ideal long-acting preparation are discussed. Table.

,1/1

CIA-RDP86-00513R000204400009-6

BELOPITOV, R.; LOZOV, At.; BORVA-MIKHAILOVA, An.

Early (indirect) prosthesia of edentulous. Stomatologiia. Sofia No.6:375-379 1954.

1. Iz ortopedichnoto otdelenie pri Okruzhnata stomatologichna poliklinika, Burgas. Glaven lekar-stomatolog: Iv. Kiumiurdzhiev. (DENTAL PROSTHESIS, in edentulous)

# Methodol populate describing that the state of the state

Belopolskaya, A. R., and Kovrigin, A. B.

Segmentation of complex sentences (German) Vypusk 2, Moscow, 1961, 10 p

Paper read at the Moscow Conference on information processing, machine translation, and automatic text reading, January 1961.

PA 50/49T18 BELOPOL'SKAYA, M. M. Pypeneum, Parasitic in Birds," M. M. Belopol'skaya, \*havelopment Cycle of the Trematode Spelotrema Leningrad State U imeni A. A. Zhdanov, 3 pp Mortotal/Mase Littorina rudis and I Obtusata are intermediate hosts of Spelotrema Pygmaeum in "Sem' Ostrovov" \*Dok Ak Nauk SSSR" Vol LXVI, No 1 Change in this cycle involves strengthening to Martianal Forest. Its developmental cycle is shortened because there is no second intermediate host. USSR/Biology structure of cercaria. Shryabin, 2 Mar 49. Transtode (Contd) Submitted by Acad K. I. Hay 15 graten/05 May 5 30/49T1B

BELOPOL'SZAYA, N. M. Maritime Territory - Par sites Parasitofouna of the boar of the Worlline Territory, Fruly sen ob-v. est 71, 20, 4, 1958 Montaly wist of Mussian Accessions, mibrary of Congress, dume 1200, Such.